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(54) Title of the Invention: An optical information recording/reproducing head and a method for manufacturing the same

(57) Abstract

The invention relates to an optical information recording/reproducing head and a method for manufacturing the same. Disclosed is an optical information recording/reproducing head in which a material having a high third non-linear coefficient completely fills an aperture at the tip of its probe, thereby making a beam be focused in the form of a parabola generating no or little optical loss while reducing the size of the beam to about a half-wavelength size, in order to achieve self focus. Accordingly, a near field is effectively excited at the aperture. Thus, the optical information recording/reproducing head has an aperture having an improved transmissivity corresponding to several hundred times or more the transmissivity of conventional optical fiber probes. Also, a method for manufacturing the optical information recording/reproducing head is disclosed.